



Technical Report

(Memo to File)

Unit & Unit Number: SPCo-South & Unit-42 & Unit-43

Date: 20th March' 2021

From: M. RajeshKumar

Dept.: Reliability Department

Subject: Recommendation Report – 42X87 & 43X87 Pellet Dewatering Dryer.

On 22nd September 2018 onwards found the repeated Pin hole leak on 42X87 & 43X87 Pellet Dewatering dryer divider unit. During the repair welding found additional sub surface crack on welded joints & angle to plate weld joints, plate surface location. It is recommended to replace in upcoming Turnaround 2022. Please refer the below DPT & visual inspection Pictures & Highlighted Drawing Detail.

Recommendations:

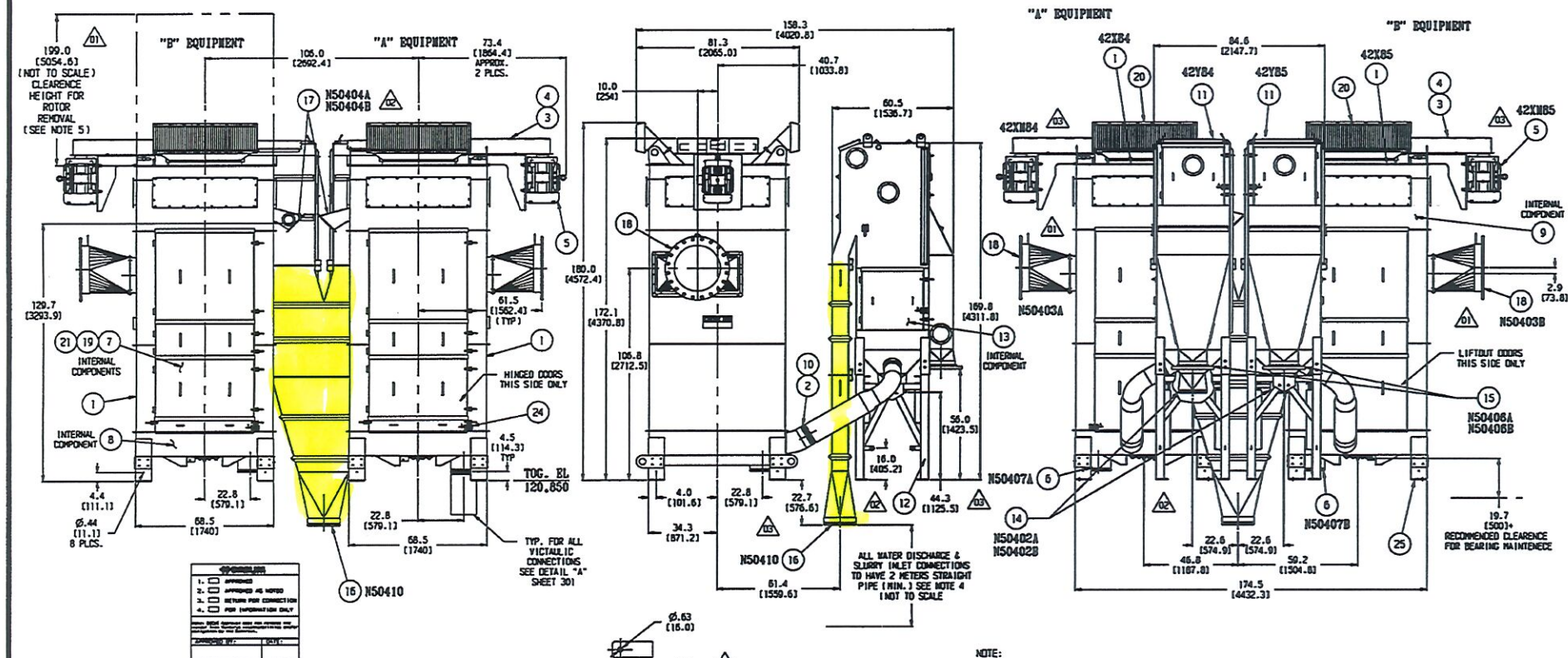
1. Should be replace the equipment upcoming TA-2022 mark up. Refer the highlighted Drawing detail & Picture detail.





WEIGHTS (APPROXIMATE) LBS/KG					
BASE D650 (EACH) W/SELECT OPTIONS	D650 (EACH) DRIVE KIT (50 HP)	D650 (EACH) TOTAL (EMPTY)	D650 (EACH) TOTAL (PLUGGED)	SPLIT AL/DU 3200 TOTAL (EMPTY)	SPLIT AL/DU 3200 TOTAL (PLUGGED)
7265/3295	1300/590	8565/3885	13815/6565	5600/2540	16600/7530

REVISIONS					
LEVEL	RECD	REV #	DATE	BY	REVISIONS
01		REC	10/24/08		CHANGES MADE PER CUSTOMER REQUEST
02		REC	06/20/09		UPDATED DRAWING STATUS TO "CERTIFIED PRINT" AND ADDED NEW LEG DIMENSIONS
03		REC	05/05/09		UPDATED DRAWING STATUS TO "AS BUILT" AND CHANGED DIM. 22.7 HIG 22.3



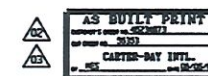
CONNECTIONS
1. APPROVED
2. APPROVED AND NOTED
3. RETURN FOR CONNECTION
4. FOR INFORMATION ONLY
5. FOR INFORMATION ONLY
6. FOR INFORMATION ONLY
7. FOR INFORMATION ONLY
8. FOR INFORMATION ONLY
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GROUND LUG DETAIL

NOZZLE TABLE						
NOZZLE/ITER NO.	RATING	DRY	SIZE	TYPE	RATING/DRILLING PATTERN	RATING COMPONENT
N50407A/B	D650	WATER DISCHARGE	12"	VICT	N/A	YES
N50404A/B	D650	PELLET DISCHARGE	10" X 16"	FF	N/A	NO
N50403A/B	D650	AIR OUTLET TRANSITION	24"	FF	150#	YES
N50405A/B	AL/DU 3200	ACCELERATE DISCHARGE	14"	RFSO	150#	YES
N50402A/B	AL/DU 3200	WATER DISCHARGE	14"	VICT	N/A	YES
N50410	AL/DU 3200	SLURRY INLET	15"	VICT	N/A	YES

NOTE:

- ALL MATING FITTING AND MOUNTING POSITION DIMENSIONS ARE ± .25 (6.35) UNLESS OTHERWISE SPECIFIED.
- INSTALL AL/DU3200 LEGS TO BODY USING BOLTS PROVIDED AND BOLT TO FINGER TIGHT. POSITION UNIT LEGS TO MOUNTING POSITIONS ON FLOOR. ANCHOR FLOOR MOUNT POSITIONS BY TIGHTENING FLOOR BOLTS. THEN TIGHTEN LEG BOLTS.
- ITEMS 3-5, 10, 12, 18, 20, & 25 SHIPPED LOOSE FOR FIELD INSTALLATION.
- 2 METER MINIMUM STRAIGHT PIPE AT N50402A/B, N50407A/B, AND N50410
- STUB SHAFT MAY BE REMOVED TO REDUCE CLEARANCE HEIGHT REQUIREMENT BY 30"
- NO LOADS OR MOMENTS ALLOWED ON ANY NOZZLES.



NCP - HDPE LINE #1

CARTER DAY

INSTALLATION DATA

AL/DU 3200'S W/ FLOW DIVIDER & D650 DRIVER PAIR	10/20/08	10/20/08	10/20/08
10/20/08	10/20/08	10/20/08	10/20/08
10/20/08	10/20/08	10/20/08	10/20/08

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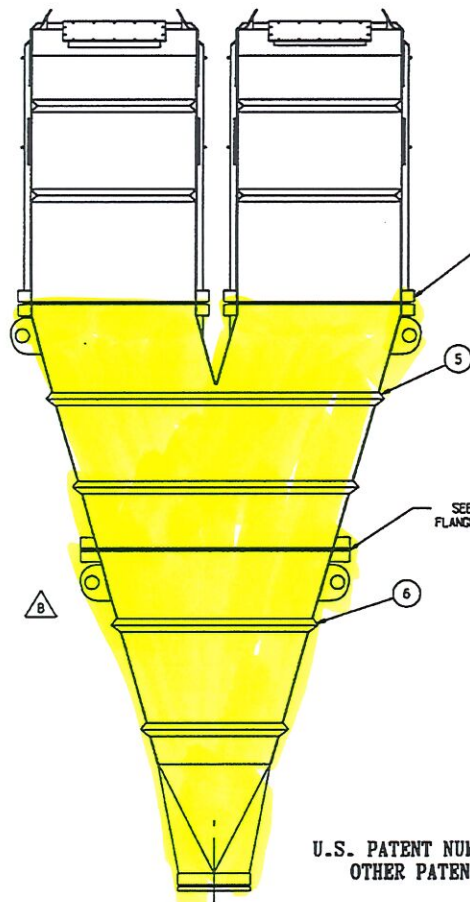
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NCP PROJECT

GENERAL ARRANGEMENT, UNIT 42
42X84, 42X85, & 42X87

VP-2800-126-001-42V80-066

SCALE: 1/4" = 1'-0" DRAWING NO. NCP-SE-001

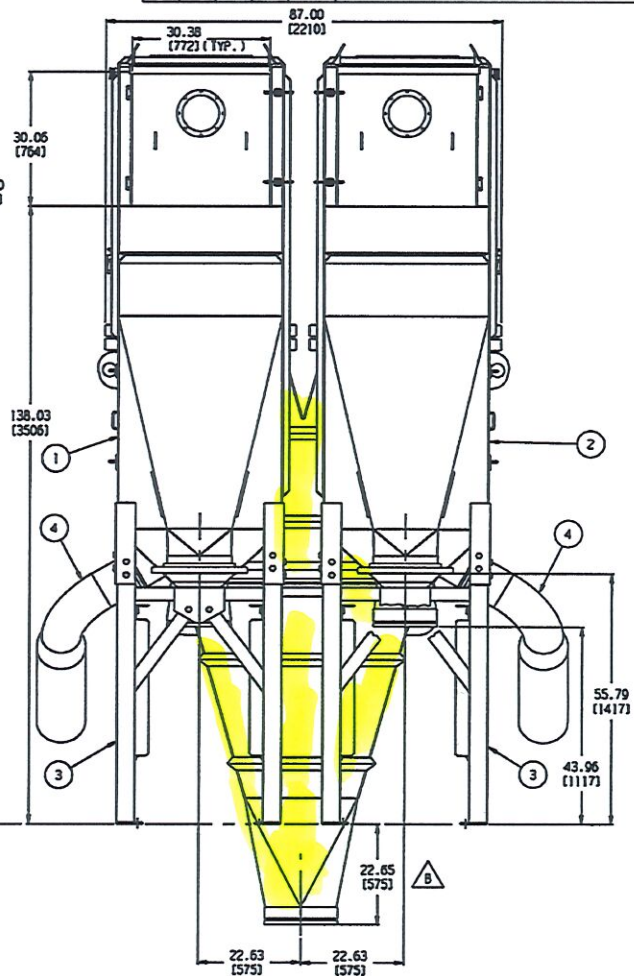
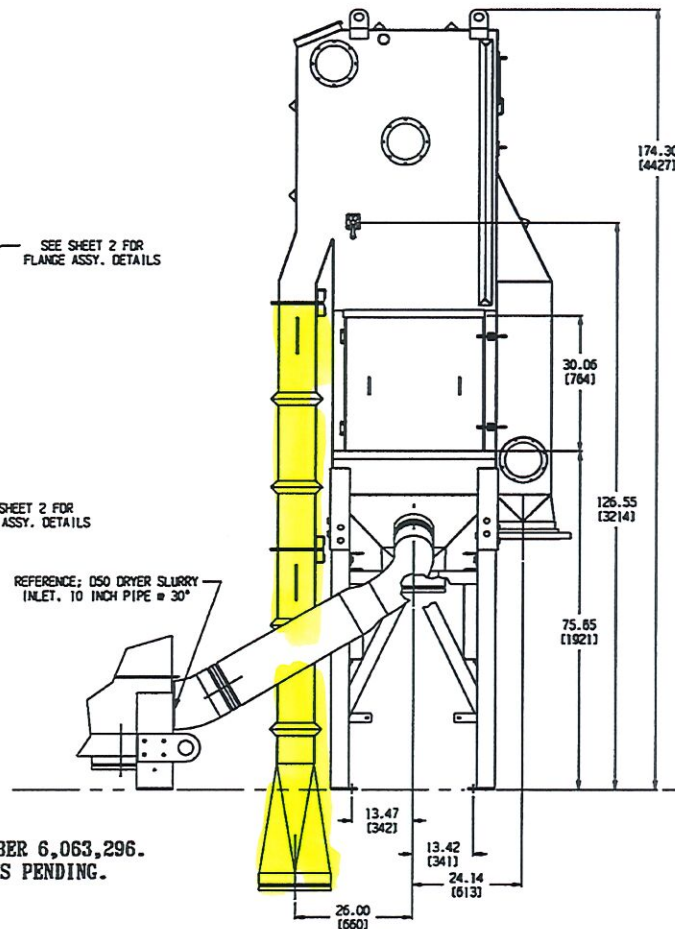


SEE SHEET 2 FOR
FLANGE ASSY. DETAILS

SEE SHEET 2 FOR
FLANGE ASSY. DETAILS

REFERENCE: D50 DRYER SLURRY
INLET, 10 INCH PIPE @ 30°

U.S. PATENT NUMBER 6,063,296.
OTHER PATENTS PENDING.



REVISIONS					
LEVEL	RECD	ISS #	DATE	BY	REMARKS
A	02-055	BNA	03/20/00		CHANGE PARTS LIST ITEMS 3 & 4 TO DTY. "REF."
B	02-137	PES	06/11/00		CHG P/N 88038 WAS 88037, CHG DIM 22.65 WAS 22.46

MATERIAL
304L STAINLESS STEEL

CARTER DAY

ASSY.. AU/DLS200 SPLIT FLOW,
STYLE NO. 0001

SEE SHEET 2 FOR PART LIST

TECHNICAL DRAWING SPECIFICATION

REV. NO. 1-100
REV. NO. 1-100

DESIGNED BY
JDS 855363 & 855365

DESIGNED BY
JDS 855363 & 855365

DATE
02-17-00

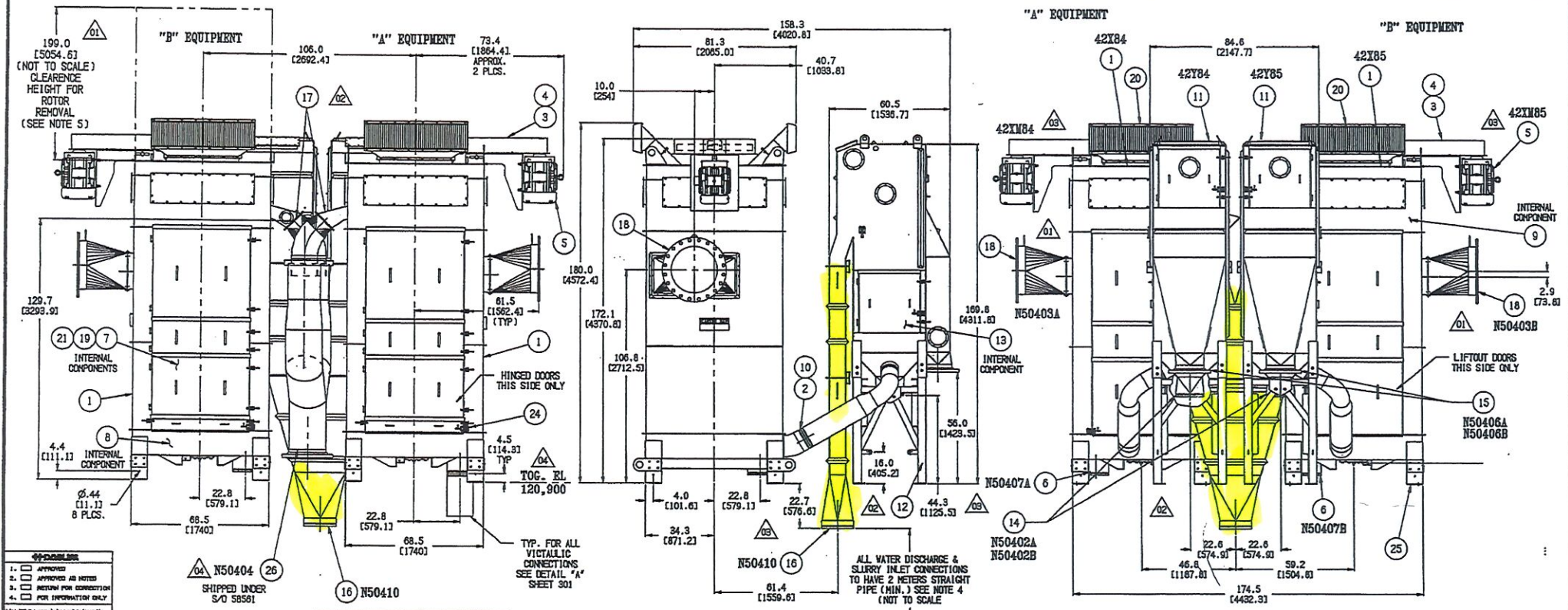
CD-011398

PART NO.
443955

Printed 12/09/09 10:20:57

WEIGHTS (APPROXIMATE) LBS/KG					
BASE D650 (EACH) W/SELECT OPTIONS	D650 (EACH) DRIVE KIT (50 HP)	D650 (EACH) TOTAL (EMPTY)	D650 (EACH) TOTAL (PLUGGED)	SPLIT AU/DU 3200 TOTAL (EMPTY)	SPLIT AU/DU 3200 TOTAL (PLUGGED)
7265/3295	1300/590	8565/3885	13815/6565	5600/2540	16600/7530

REVISIONS					
LEVEL	NO.	BY	DATE	REVISIONS	REMARKS
01		NE	10/21/09	CHANGES MADE PER CUSTOMER REQUEST	
02		NE	04/23/09	UPDATED DRAWING STATUS TO "CORRECTED PRINT" AND ADDED NEW LBS WEIGHTS	
03		NE	08/05/09	UPDATED DRAWING STATUS TO "AS BUILT" AND CHANGED DIM. 22.7 WAS 22.5	
04		NE	12/02/09	ADDED THIRD SHEET TO SHOW THE DUAL ORDER PRODUCT DISCHARGE TRANSITION	



HYDRA-LINE	
1.	APPROVED
2.	APPROVED AS NOTED
3.	RETURN FOR CORRECTION
4.	FOR INFORMATION ONLY

64020862.609.4140.1.04

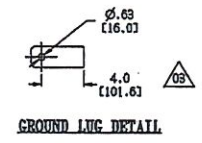
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DARIM
CONTRACTOR
WorleyParsons
MANAGING CONTRACTOR
RESOURCES & ENERGY

NCP PROJECT

TITLE
GENERAL ARRANGEMENT, UNIT 42
42X84, 42X85, & 42X87
VP-2800-126-001-42V80-066

coperion
confidence through partnership
For Final



NOZZLE TABLE						
NOZZLE/TYPE NO.	MACHINE	DUTY	SIZE	TYPE	RATING/DRILLING PATTERN	MATING COMPONENT
N50407A/B	D650	WATER DISCHARGE	12"	VICT	N/A	YES
N50404	D650	PELLET DISCHARGE	18"	RFSO	150#	YES
N50403A/B	D650	AIR OUTLET TRANSITION	24"	FFSO	150#	YES
N50406A/B	AU/DU 3200	AGGLOMERATE DISCHARGE	14"	RFSO	150#	YES
N50402A/B	AU/DU 3200	WATER DISCHARGE	14"	VICT	N/A	YES
N50410	AU/DU 3200	SLURRY INLET	16"	VICT	N/A	YES

- NOTE:
1. ALL MATING FITTING AND MOUNTING POSITION DIMENSIONS ARE $\pm .25$ (6.35) UNLESS OTHERWISE SPECIFIED.
 2. INSTALL AU/DU3200 LEGS TO BODY USING BOLTS PROVIDED AND DRAW TO FINGER TIGHT. POSITION UNIT LEGS TO MOUNTING POSITIONS ON FLOOR. ANCHOR FLOOR MOUNT POSITIONS BY TIGHTENING FLOOR BOLTS, THEN TIGHTEN LEG BOLTS.
 3. ITEMS 3-5, 10, 12, 18, 20, 25, & 26 SHIPPED LOOSE FOR FIELD INSTALLATION. ALL FASTENERS PROVIDED EXCEPT FOR ITEM 18.
 4. 2-METER MINIMUM STRAIGHT PIPE AT N50402A/B, N50407A/B, AND N50410
 5. STUB SHAFT MAY BE REMOVED TO REDUCE CLEARANCE HEIGHT REQUIREMENT BY 30"
 6. NO LOADS OR MOMENTS ALLOWED ON ANY NOZZLES.
 7. WATER DISCHARGE PIPING MUST BE VENTED. CONNECTION OF DRYER WATER & AU/DU WATER PIPING MUST NOT BE AT 90°.

AS BUILT PRINT
CARTER-DAY INTL.
DATE 08/18/08

NCP - HDPE LINE #1
CARTER DAY
INSTALLATION DATA
AU/DU 3200'S W/ FLOW DIVIDER & DESO DRYER PAIR
DRAWN BY B. ARP DATE 08/18/08
CHECKED BY SCALE 1/2"=1'-0"
APPROVED BY SHEET 1 OF 3 55353-300

Approved *CATC*
2010.7.20